

THE TECH

VOL. XXVIII. No. 70

BOSTON, MASS., FRIDAY, APRIL 16, 1909

PRICE THREE CENTS

1911 VS. 1912 IN CROSS COUNTRY

**Will Finish at Field at
3:30 During Base-
Ball Game**

WILL BE VERY CLOSE

**Over Twenty Men Expected to
Run—1912 Picked to Win
from Spring Showing**

Tomorrow afternoon at about 3:30 the 1911-1912 Cross Country Run finishes at the Field during the progress of the 1911-1912 baseball game. The sophomores have the benefit of experience, but on the basis of work done this spring in the inter-course run it looks as though the freshmen would win. In all events it probably will be the closest freshman-sophomore run yet held, as 1911 is looking for another chance to make up for Field Day and get its numerals again on the cross country cup, while 1912 wants to do something to cause the recent basket ball series to be forgotten. There is no limit to the number of entries made by each class, as only the first six men to finish score on each team. Last year 1911 won from 1910 with a score of 33-45, so the sophomores are looking to their team to repeat last year's victory. The first six men of the winning team get their numerals.

The men who will probably run are: for 1911, Capt. C. P. Eldred, R. D. Van Alstine, W. T. Mac Creadie, L. C. Cooley, E. W. DeWitt, Foster Russel, J. D. Mac Kenzie, H. G. Jenks, W. C. West, S. Bogdasarian, S. Bates, G. C. George, H. S. Smith, R. L. Hayward and C. R. Johnson; for 1912, Capt. H. S. Benson, H. G. Watkins, C. H. Morrill, K. Cartwright, V. V. Ballard, E. E. Ferry, R. M. Ferry, C. L. Tuller, G. H. Rhodes and F. H. Busby. Capt. Eldred, of the sophomores, has a very good chance of winning, while Capt. Benson of the freshmen and Watkins should finish close up with Mac Creadie, Van Alstine, Morrill, Cartwright, Cooley, DeWitt, Russel and Mac Kenzie close behind.

The number of men out and the excellent quality of their work augurs well for varsity cross country next year, and Coach Kanaly thinks that prospects are very good for a team that will finish well up at Princeton next fall.

LATEST ON THE PROM

Seating arrangements for the Prom will be published in Saturday's Tech. Programs will be distributed in the Union from 12 to 2 today, and all tomorrow morning by the committee, to those showing Prom receipts.

All men wishing taxicabs should make arrangements with the Taxi Motor Co. at once—10 per cent. discount is allowed.

Receiving at the Prom will be from 8.30 to 9.00. The supper will be served from 12 to 12.30. Dancing will continue from 9 to 3.

It is desired that all intending to go will sign up and pay at once.

BUT FEW CHALLENGES

But few challenges have been received in the new scheme for competition for the varsity tennis team. J. W. Nickerson 1909, and J. Scheuer 1910, have decided not to compete and accordingly will resign their positions on the list. The other men will be moved up as a result of these vacancies and M. D. Price 1910, will have Nickerson's place.

Unless more challenges are received and more interest is shown in the competition it looks as though the new scheme will not work out as well as it was at first thought that it would. The only challenge received to date is from P. M. Wentworth 1909, who has challenged M. K. Sweet 1910.

GLOUCESTER HIGH WINS THE DRILL

**Interscholastic Drill Won
by Well Balanced
Squad**

METHUEN WINS POINTS

**Pattillo, Gloucester High, Wins
First Prize—Bridge of
Methuen, Second**

The Exhibition Drill and Interscholastic Championship Drill, annually held under the auspices of the M. I. T. Corps of Cadets, was held Wednesday afternoon in South Armory, on Irvington Street. Thirteen high schools in Massachusetts and New Hampshire took part in the drill, each represented by three contestants. More interest was shown in the drill than in former years, and the teams showed more earnestness and precision of movement. Fully one hundred visitors were present, in addition to the entire M. I. T. battalion.

The committee in charge of the drill was as follows: John A. Herlihy 1911, chairman; D. E. Bent 1912; P. W. Dallymple 1912; F. H. Busby 1912; C. A. Stewart 1912; H. D. Kemp 1912; S. S. Stevens 1912.

At two o'clock the ceremonies commenced with M. I. T. company drill under the command of Captains Anderson, Wilbur, Frazier, and Perry.

At 2:30 the contestants for the Interscholastic trophy filed before the judges: Captain Frederic M. Whiting, M. V. M., Captain Frank L. Wilson, M. V. M., and First Lieutenant Grey L. Gearheart, C. A., U. S. A. Each contestant wore the uniform of his school, and carried his number at his belt.

The original squad was as follows: Concord, N. H.—J. M. Masson, G. W. Morrill, G. A. Stickney; Gloucester—E. Taft, L. W. Gibson, G. S. Pattillo, Hyde Park—T. Ward, S. M. Wheeler, J. L. Drummy; Lowell—J. H. Gilbride, H. T. Mather, H. D. Brown; Medford—J. Street, L. Scrammage, A. Baker; Lynn English F. Hammond, J. R. Vatcher, E. L. Marshall; Northbridge—P. Brownson, W. McGlynn, E. Fredette; New Bedford—H. I. Wordell, F. F. Jones, G. E. Briggs, Jr.; Mitchell H. W. Robie, F. H. Garlach, C. A. Lyle; Stoneham—A. E. Hamn, R. Connor, Wm. Garside; Wakefield—J. C. Morse, B. A. Anthony, A. M. Proctor; Brockton—L. E. Mayer, S. Gunney, H. Quinbar; Methuen—J. L. Laycock, E. B. Douglass, E. M. Bridge.

For about half an hour Lieutenant L. R. Golden of Company A drilled the squad in the manual of arms, marching and facing. During the following intermission, the M. I. T. band played a few selections.

Twenty-one men were dropped at the first winnowing by the judges, and the following men returned for the second competition: Morrill, Stickney, Pattillo, Wheeler, Gilbride, Mather, Street, Scrammage, Wordell, Briggs, Robie, Garlach, Lyle, Garside, Morse, Anthony, Proctor and Bridge. Lieutenant Devlin of Company D took command.

For the final competition, the following men remained on file: Pattillo, Mather, Wordell, Briggs, Garlach, Anthony, Proctor and Bridge. These eight men were drilled by Lieutenant Ranger of Company B. From the squad, the judges voted the gold medal for best individual drilling to Sergeant G. S. Pattillo of the Gloucester High School Cadets. The silver medal was awarded to Sergeant Edward M. Bridge of the Methuen High School Cadets. The silver cup was awarded to Gloucester High School, which earned the highest number of points in the final squad.

The ceremonies closed with the evening parade of the M. I. T. battalion, and the presentation of prizes by Major Wheeler.

LAST INSTRUCTIONS ON TECHNIQUE RUSH

**Gun Will Be Fired At 12.15
No Men May Climb
On The Roof**

GOOD FIGHT EXPECTED

**First Five Books Have Signature
Of Pres. Noyes on Flyleaf
And Are Free**

With every assurance of fair weather and with positive assurance of many contestants and a fair audience, the annual Technique rush will be started tomorrow with the final gun at 12:15.

True to tradition, the men who secure the first five volumes will have the cost of their tickets refunded after the rush. Books 1 to 20 will contain the autograph of President Noyes. This year the numbers will be very conspicuous on the packages and there will be little delay in knowing what each man has scored as he appears from the mob.

Green rush tickets are still on sale today in the Union, hours for business being from 1 to 2 and 4 to 6:30. A last opportunity to secure tickets will be offered tomorrow at the scene of activities. Then tickets may be procured until the rush is over from the agent stationed under the sign.

The rush rules are not very restrictive. A couple of Technique men will be stationed on the roundhouse to enforce what rules there are. When a man has secured his book at the window, that book thereafter is not to be interfered with. No contestant will be permitted to drop from the roof. The moving pictures will be taken from a cart stationed about 30 feet from the roundhouse, the machine itself being at an elevation of about eight feet. Everyone is warned to keep away from the operator's cart, and if a contestant does not, he will be disqualified from securing a book during the rush.

HUNTING BIG GAME

Lyman Underwood to Give Illustrated Lecture Tonight

"Hunting Big Game with Canoe and Camera" is to be the subject of Mr. Lyman Underwood's talk this evening at the Union. Mr. Underwood has given this lecture several times and it has always been enthusiastically received by his audiences.

Mr. Underwood is well known as a lecturer and many Tech men have had the pleasure of hearing his several talks to the Biological Society. He is at present a special lecturer on the instructing staff of the Institute and he is a particularly popular speaker with the students.

Mr. Underwood gave a very similar lecture before the Biological Society on December 1st, last year, under the title "With Canoe and Camera in the Wilds of New Brunswick" and made use of a large number of very fine stereopticon views which he photographed himself while on a trip in that region. He has given the lecture before the Technology Club and the enthusiasm with which it was received there argues well for its reception this evening.

On his summer trips in the Maine woods and on winter trips through the Everglades of Florida he has taken, what is perhaps without exception the finest collection of artistic photographs showing the wild animals right at home. The slides moreover are most excellently colored making them very realistic, these slides he is going to show during his talk.

All who attend the talk tonight will be amply repaid and the entertainment committee is making preparations to receive a large crowd.

FIRE FIGHTING MINE APPARATUS

**Mr. Mingrann Talks Before
Mining Engineering
Society**

OLD STYLE APPARATUS

**Draegar Oxygen Machines Shown
and Necessity of Them
Demonstrated**

Mine rescue work and fire fighting in mines was the subject of the lecture Wednesday evening by Mr. W. E. Mingrann, general manager of the Draegar Oxygen Apparatus before the Mining Engineering Society at the Union.

Mr. Mingrann opened his lecture with an account of the different apparatus which have been invented, since the need of them became evident. In this country the mine rescue apparatus has been in use only two years, but in Germany, apparatus of this kind has been in use since 1867. In Germany the need of such apparatus was especially necessary because of the deep mines in that country which were not met with in the United States until lately. The school of mines in Germany has a deep pool in which the students are trained in the use of the deep diving and mine rescue work.

The first apparatus invented was by a Frenchman, to use in mine fires, but it was not very satisfactory as it could only be used at a short distance from the good air. The next improvement on this apparatus was an invention which made use of two tanks of compressed air by means of which the workman could stay in the gaseous atmosphere of the mine for about fifteen minutes. In 1885 a new dependent type of mine apparatus was invented which was quite reliable and which is in use in many mines at the present date. The next development in 1900 was another form of the dependent apparatus with a light helmet and with the air tubes attached to a belt fastened around the waist. In 1906 the independent apparatus of the Draeger company was invented which nearly superseded the old style equipment.

The question of the amount of air needed by the human being for working purposes was also important, and experiments made for the purpose of finding out the amount of air needed gave the following data: a man sitting down uses about two and a half gallons of air; a man walking one thousand feet uses up about four gallons of air; while a man doing hard work uses about ten gallons per minute. In the old style apparatus the man could work for about twenty minutes without ill effects, but after that time he would soon get a headache, and then if he continued to work, he would faint. The fault of the old apparatus was that the oxygen used contained, after breathing, about five per cent. of carbonic gas, and this gas overcame the workman.

The Draeger apparatus consists of a frame which holds the oxygen tank, the two carbonic gas absorbing cartridges, and the rubber connecting tubes which lead to the mouth. The cylinder

(Continued on page 2.)

CALENDAR

FRIDAY, APRIL 16.

8:00 A. M.—New Show Postals out.
1:45 P. M.—Electrical Engineers meet at Lowell Building.
3:00 P. M.—Trials for Relay Team at Field.

SATURDAY, APRIL 17.

8:00 A. M.—Junior Week issue of Tech.
12:00 P. M.—Technique Rush.
3:00 P. M.—1911-1912 cross-country at Field.

THE TECH

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Friday, April 16, 1909

Technique 1910 is awaited with keen expectation.

Get out your football togs again. Not for spring practice. For the Technique Rush. Get immortalized.

Pay up for Prom at once! The committee is delayed because of the fact that many men who have signed up have not turned over the necessary five dollars.

In view of the fact that last year the freshmen failed to "score" in the Technique rush, it will be interesting to see

what sort of fight 1912 will put up tomorrow. Our present freshmen have shown their prowess once most emphatically, and if we are to judge from what may be gathered from their conversation, the Technique 1910 rush will be another feather in 1912's cap, so far as the lower classmen are concerned.

Tech has a defeat to retrieve at Philadelphia next Saturday. Whether this will be done depends upon the kind of men that show up at the Field this afternoon for the trials for the team. It is up to the men at the Institute who can run some to get out and do their best to make the team, then to do as Coach Kanaly directs. If the fastest quarter-milers will go out and work, there is no reason to look for anything but a victory at the Penn relay games next week. It is high time that the men who can do things at Tech should see to it that none but the best at the Institute ever wear the cardinal and gray in any kind of a contest. Are you doing your share?

There will be no issue of The Tech on Monday, April 19, or on Wednesday, April 21. The regular Monday issue will be published tomorrow at twelve o'clock. This will be an eight-page souvenir of Junior Week, containing full particulars of all the events of the week, with pictures of the Show cast, and the prominent participants in the other affairs. Everyone should procure a copy. They will be on sale at the Technique Rush in exchange for the regular subscription ticket (No. 71) or five cents in cash.

At a meeting of the Institute Committee Wednesday afternoon, it was decided to have an advisory board appointed from the new Alumni Council to act in conjunction with the Institute Committee in deciding on student activities.

FIRE FIGHTING

(Continued from page 1.)

der containing oxygen is under a pressure of about two thousand pounds, and the pressure of the oxygen going through the tubes to the mouth is regulated by an automatic valve which keeps the pressure of oxygen to the mouth down to seventy-five pounds to the square inch. There may be attached to the back one or two cylinders, each one good for one hour's work. In case two cylinders are used, they are entirely separate from each other, each operating by a special valve. In action the oxygen passes through the rubber tube to the mouth, and after breathing, the carbonic gas given off by the lungs is forced around the other tube through the absorbing cartridges, which absorb the carbonic gas. Special appliances to the apparatus are: a sponge for cleaning the window of the helmet, a telephone to the good air outside the mine, and a special appliance which takes up the surplus of oxygen which passes through the tube, and is not used by the workman. One side of the helmet is uncovered so that while working in the mines, if any accidents happen, the workman can hear sounds of them. The further apparatus manufactured by the Draeger Apparatus Company is the special electric light for use in mine work. One light which they manufacture is a hand lamp with a storage battery as the motive power, and the other is a lamp which fits on the top of the helmet, so that wherever the miner turns the light is always flashing before him.

The last part of Mr. Mingrann's lecture was an account of the use of the oxygen apparatus in the reviving of men overcome by the after damp of mine fires and explosions, in which he told of the revival of men who had been apparently dead for at least eight hours.

M. BERTIN'S LECTURES

French Naval Architect Giving Interesting Talks

Mon. L. E. Bertin in the first of his lectures on Naval Architecture Monday emphasized the fact that hydrodynamics, unlike optics and sound, has never become a classical science. In early times the ocean was surrounded with mystery and, as this has disappeared, the interest in the study of ocean phenomena instead of increasing, has become less and less.

The question as to whether the laws of simple periodic vibrations are, or are not verified by observations on water waves has received considerable attention. Measurements have been made of the height, length and period of waves in mid ocean where disturbing effects due to the shore are absent. These have agreed well with the calculated values. M. Bertin gave a mathematical discussion resulting from the superposition of simple waves of varying heights and phases. He also referred to the disputed point as to whether the energy of the waves raised by the prow of a vessel is lost energy or merely a part of the minimum work necessary to propel the ship through the water. He favored the latter view.

In his second lecture yesterday M. Bertin gave a summary of the mathematical theory of the stability of ships. He also described experiments performed on models and cited instances of shipwrecks in which the results of these experiments were confirmed. The admission of even a very small quantity of water into a ship may cause a very great increase in instability. In any case the tendency is to produce a virtual raising of the center of gravity. The most desirable arrangement from the point of view of stability is that of the Monitor, but unfortunately this does not meet the other demands of navigation.

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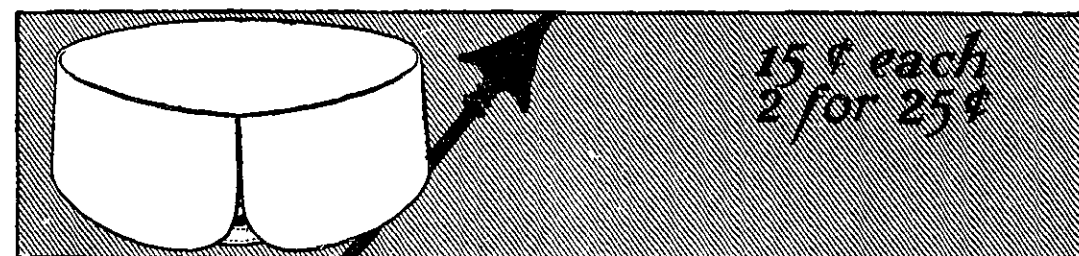
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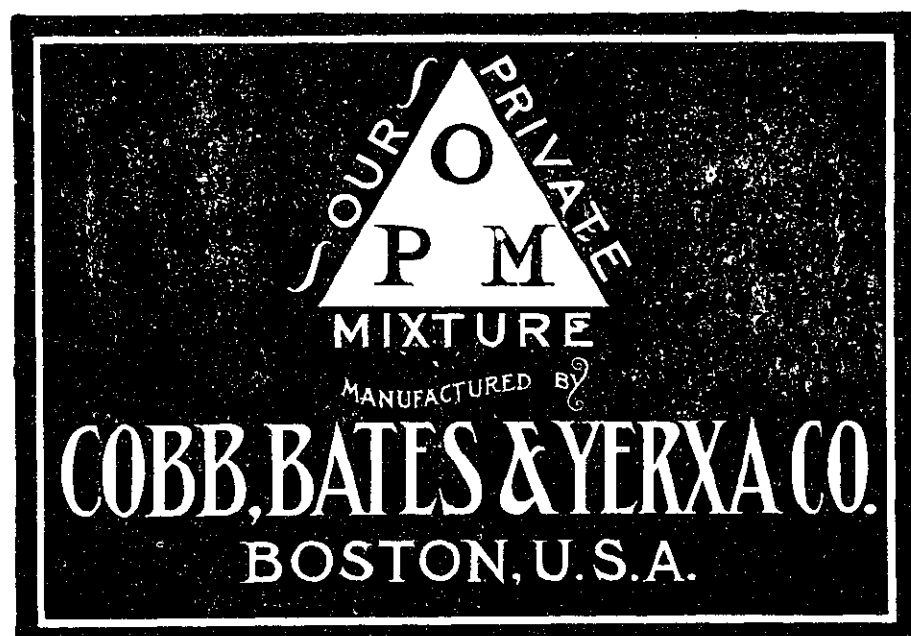
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Hours, 1—2 and 4—5:30

The Technology Review

A QUARTERLY MAGAZINE
DEVOTED TO THE INTERESTS OF
THE MASSACHUSETTS INSTITUTE
OF TECHNOLOGY

AND
PUBLISHED BY THE ALUMNI
ASSOCIATION

83 NEWBURY STREET, BOSTON

The Review aims to develop closer relations among Institute men and to stimulate their interest in the work of the College. It is in no sense an engineering magazine, but deals broadly with the problems of Technological Education and the responsibilities of the professional man.

THE REVIEW is published during January, April, July, and October. Communications should be addressed to THE TECHNOLOGY REVIEW, 83 Newbury St., Boston.

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SPRING STYLES

SPRING MEET ON MAY 1

Trophies Presented by Alumni—
Hare and Hounds Notes

On Saturday, May 1, will take place the annual spring interclass meet. The meet this year promises to be the best in years. Through the generosity of alumni, three new cups have been offered for competition. These cups are on exhibition at the Union, and are to be given to the men winning the 120-yard hurdles, the mile run, and the quarter-mile. As the cups become the permanent property of the winners, competition in these events is sure to be keen.

These trophies are gifts of Benjamin Hurd 1896, Dr. J. Arnold Rockwell 1896, and of J. L. Batchelder 1890. These men distinguished themselves as athletes while at the Institute. Hurd made the Tech record of 26 3-5 seconds in the high hurdles, and also the record of 26 1-5 seconds in the low hurdles. Batchelder was about the best miler that the Institute has ever had, and Dr. Rockwell was a fine quarter-miler.

In addition to these cups, Major Frank Briggs has presented a cup to the class winning the highest total number of points in the Fall, Winter and Spring interclass meets. The report that this cup was for the best all-round athlete was unfounded.

In all probability, the Juniors will be the lucky class to first place their numerals on this cup. In both the Winter and Fall meets they have proved easy victors, and they should prove the winner of this coming Spring meet. However, there is a wealth of good material in the other classes, and the competition will be close. The freshmen, who have taken second in the other two meets, have some very promising material, and their presence will surely be felt.

At present the class of 1910 has 93 points to its credit for a total; 1912 has 60 1-2; 1911 has 44, and 1909 is last with 39 1-2.

The Hare and Hounds run which will take place on April 24th, will be held at Wellesley. There is an excellent course there in the vicinity of Lake Waban, and a large attendance is expected. Notices to this effect will be posted later.

RELAY TRIALS TODAY

All candidates for positions on the varsity relay team which is to enter the Pennsylvania Relay Carnival must positively take their trials today at the Field. Entries for the carnival will have to be telegraphed to Philadelphia tonight, so that any man who has intentions of trying for the team must report at the Field sometime this afternoon.

APRIL REVIEW OUT

Technology Reunion Described
In Detail

With a detailed description of the plans for the All-Technology reunion, articles on the current events of the Institute during the last few months, and many pages of news from the classes, the April number of the Technology Review fairly teems with good things for Tech men.

J. H. Critchett 1909, has described the organization of the student activities under the Institute Committee, together with plans for the future. M. R. Scharff 1909, has treated the Point System in the same way, and H. A. Rapelye 1908, has written a resume of athletics.

The Alumni Dinner held in January is very fully written up. It is interesting to note the spirit of hopefulness backed by clear reasoning, that pervades the speeches of the men who spoke at the dinner concerning the future of Technology.

The Review speaks very highly of

(Continued on page 4.)

TECH BOYS

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APRIL REVIEW OUT

(Continued from page 3.)

Prof. Spofford, who is to take Prof. Swain's place next fall.

In connection with Prof. Clifford's resignation the development and present scheme of the Electrical Engineering Department is described. An opportunity is thus presented to Institute men to view that department in perspective and get an insight into it such as few of the undergraduates, especially those not taking Course VI, possess.

There are various minor articles on the various happenings of the last few months, as for instance, Society of Arts, Prof. Lowell's and M. Bertin's lectures, etc.

The regular departments "Among the Undergraduates," "Alumni Here and There," "News from the Departments," "General Institute News," "Tech Men in the Public Eye," "Miscellaneous Clippings," etc., are all large and interesting.

It is particularly interesting to note the editorial opinions recently expressed by various papers throughout the country on the relative status of Harvard and the Institute as affected by the McKay fund and the resignations of Profs. Swain and Clifford.

Although many of the classes are not represented, the news from the classes covers many pages that are exceedingly interesting.

Altogether the April issue of the Review not only fulfils its purpose of keeping the alumni in touch with the Institute but it would, if given the chance, show to the undergraduates the Institute as they have never dreamed of seeing it.

Dean Burton will address the Civil Engineers in 6 Lowell this afternoon on the subject "Summer School." The talk is likely to prove of particular interest, as there has been some idea of having a compulsory summer school in this course, and the Dean may make some statement in regard to the matter. The meeting will be held at 4.15.

NOTICES

CIVIL ENGINEERING SOCIETY—Meeting in 6 L. Friday, 4.15. Dean Burton speaks on Summer School. A16

BRITISH EMPIRE ASSOCIATION.—Meeting tomorrow at 1 P. M. in 16 Rogers.

NINETEEN-TEN—Important meeting at one o'clock today. Discussion of election of treasurer.

TECH SHOW.—Principals and chorus—Rehearsal of Act II on Friday at 4.15 sharp, instead of Thursday. R. F. Goodwin, Jr., Stage Manager.

EXETER CLUB. The P. E. A. musical clubs will give a concert in Chickering Hall, Saturday afternoon, April 17 at 2:30 P. M., and the M. I. T. men are asked to lend their support. Tickets are on sale at Chickering Hall.

CLASSIFIED ADS

Advertisements under this head are inserted at the rate of five cents a line of six words, payable in advance, and copy should be handed to the business manager the morning before publication day.

LOST—A black pocket book on Thursday, containing cards and papers of Daniel Belcher. Finder please return to Cage. A16

MOTOR CYCLE.—If you are going to buy a new one, address Box 602, Prov., R. I., for an interesting proposition. A 19

TO RENT.—Small steam heated room with gas on upper floor, \$1.50 per week. Apply at Suite two, 163 Huntington Ave. J 6

WANTED—Tech Show posters of "The Scientific King" "The Chemical Maid" (colored) and "Simon Pure Brass" Leave note (stating price) for R. H. Allen 1909. A16

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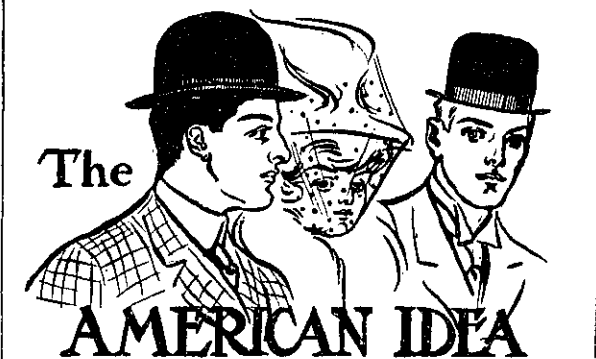
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